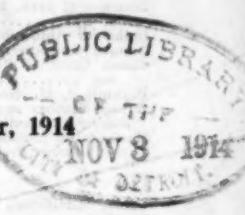


The India Rubber World Index

VOLUME XLIX
October, 1913, to March, 1914

NEW YORK:
THE INDIA RUBBER PUBLISHING CO.
1914.

VOLUME L
April, 1914, to September, 1914



A	
Accident—Fatal Explosion in Factory	491, 611
Accidents from Rubber Cement	77
Poisoning at Russian Rubber Factory	509
Prevention—Mercury Poisoning	111, 378
Acetone from Natal	563
Acid Mine Water, Action of, on Insulation of Electrical Conductors	365
Acre Rubber Tax	59, 406
Acreage, Rubber, in Java and Sumatra Com-pared	451
in Java and Sumatra Increased	100
in Malaya	678
of Plantation Rubber in Far East	678
Action of Copper and Other Metals on Rubber	600
Addition Products of Rubber	400
Adulteration in Rubber Industry	121
of Plantation Rubber	506, 601
Advertising, Co-operative	283
AERONAUTICS	
Airship Propellers of Hard Rubber	153
Aviation in Russia	565
Balloon "Goodyear"	25, 75, 83
Balloonists Return Home	130
"Drinking on the Fly"	74
Fastener Device for Aviator	307
Italy Still Building Dirigible Balloons	266
Parachute Device for Aviator	371
Principal Risks of Aviation	535
Russian Order for Aeroplanes	674
To Fly Around the World	440
Africa, German East	41, 45, 124
Germany, East, Bad Effect of Lowering Rubber Prices	625
South	24, 177
West, Compared with South America	99
African Rubber Industry (Map)	296
and Pará Rubbers Compared	237
Rubbers, Reduced Profits on	45
Agricultural Conference, International	270
Instruction in State of Pará	627
Agriculture, New School of, in Java	679
Succeeding Rubber Gathering in Brazil	644
Tropical, International Congress of	322
Use of Explosives in	622
Air Pressure Gages, Increasing Use of	550
Air-Sealed Vacuum Jar	601
Airship Propellers of Hard Rubber	153
Akers Mission to Amazonia	566
Akron Rubber Trade	16, 75, 129, 187, 244, 301, 357, 424, 485, 542, 602, 661
Albumen in Crude Rubber	563
Alps, Bob-Sledding in, with Rubber Tires	124
Amazon Country	41, 99
"How It Served the Colonel" (Editorial)	462
Hopeful Future of Rubber in	644
Rubber Shipments for 1912 and 1913	6
The Awakening on the	337
Upper, Future of Rubber Industry on the	642
Amazons and Pará, Boundary Dispute Between	644
Amazonia, Akers Mission to	566
Present and Future	570
Amazonian Permanent Commission	62
American Association Commerce and Trade, Berlin—Meeting	210
Consumption of Rubber	338
Foundrymen's Association and the Saloon	464
Exports and Exporting Methods	465
Institute of Chemical Engineers, Transactions	240
Analysis of Rubber: Determination of Carbon of Rubber Insulations	649
And Why Not Rubber Tennis Courts?	379
(Editorial)	527
Anniversary of Franklin W. Pitcher (Portrait) of INDIA RUBBER WORLD, Twenty-fourth (Editorial)	201
Antimony, Golden Sulphide of	224
Apocynum Cannabium and Apocynum Androsaceum Grown in Ohio	645
Appetite, Rubber Device for Measuring	374
Appleton, Francis H., Jr. (Portrait)	667
Appreciation of George P. Whitmore (Editorial)	392
Arbitration, Proceedings in Rubber Case	483, 551
Arbor Day in Pará	627
Arens' (Dr.) Investigation of the Cultivation of Rubber	678
Argentina, Rubber Tariff of	178
President Pena and His Book (Editorial)	528
Armoring Machine for Hose and Cable	94
Army, French, Rubber Clothing for	97
Service, Motor Trucks for	602
Shoe, The Importance of	(Editorial) 640
Artificial and Synthetic Rubber	563
Asbestos	36, 150, 182, 364, 507, 682
Asclepias Syriaca, as Source of Rubber	645
Association, Cotton Manufacturers, National—Meeting	292
German Rubber Manufacturers—Meeting	563
International Commercial and Industrial Congress	527
Insulated Wire Manufacturers, Sales	96
Motor and Accessory Manufacturers', Traffic Service of	669
Of Commerce and Trade, American, Berlin	210
Rubber Growers, London	171, 267, 383, 468, 562
Rubber Trade, of London	563
Atomizer, Multiple	263
Attaching Rubber to Metal, Process for	14
Australia, Cotton-Growing in	535
Federal Tariff of	177
"Automassage" Shaving Brush	548
Automobile Improvements	134, 259, 265
Industry, Extent and Growth of	231
Legislation	98, 463
Legislation, Perennial	(Editorial) 283
Salon, Paris, Fourteenth	265
Show, New York's Fourteenth Annual	233
Top, "Neverleek," Made of Rubber	144
Trade, No Pathology in	(Editorial) 581
Aviation (See Aeronautics).	
Awakening on the Amazon, The	337
B	
Bag, Ice, Rubber, with Textile Lining	307
Ice, Water Bottle and Fountain Syringe Combination	497
Bahamas, Rubber Vine Cultivation in	99, 155
Bait, Fish for Trolling	356
Soft Rubber, Weedless	307
Baker, A. C., Death of	367
Balata Beltng, Advantage of	33, 88
for Shoe Soles	151
Gathering, Difficulties of	293
in British Guiana	212, 324, 449, 572, 680
in Dutch Guiana	293, 324, 450, 572
in French Guiana	572
Industry in Surinam for 1913	450
Plugs for Rubber Heels	419
Production in Dutch Guiana	680
Trees, Experiments in Felling	449
Ball, Golf, Design for	608
Golf, Dunlop "V"	497
Golf, Suicide Caused by	664
Golf, Value of English Patent on	97
Two Practical Uses for the Rubber	22
Balloons (See Aeronautics).	
Balmacaan Raincoat	497
Bankroft, C. K., Report on British Guiana	626
Band, Pronged, for Bottles, as Protection Against Poisoning	378
Bandeau, Pallastic, for Hat	378
Banking Act, New, and Crude Rubber	461
Banks, North American, in South America (Editorial)	583
Batavia Rubber Congress and Exhibition	327, 385, 461, 510, 511
Rubber Exhibition, Prizes Offered for	625
Bathing Caps, Cape, Collar and Girdle	547
Bath Mat, Non-slip	203
Battleships, Rubber in	281, 415
Bayer & Co. Transfer Library	564
Bead Forming Machine, Stevens	672
Bed, Compact, Pneumatic Camp	498
Belgian Congo Colony, Conditions in	625
Rubber Freights Reduced	44
Belgium, Tariff of, on Rubber	96, 178
Belgo-Brazilian Chamber of Commerce	148
Belts, Conveyor	86, 315
Leather and Rubber, Men's	608
Making Machinery	259
Belting, Balata, Advantage of	33, 88
Belts, Conveyor; English Production Increasing	675
Bertsch, Paul E., Death of	24
Bethune, A., on Standardization of Rubber	384
Bichloride of Mercury (Life-saving Potentials of Rubber)	(Editorial) 111
Binding Ties of Trade, The	(Editorial) 527

THE INDIA RUBBER WORLD

Buitenzorg, Java, Treub Memorial Laboratory at	678	Republic Rubber Co. Employees.....	81, *253
Bulbs for Automobile Horns.....	6	Rubber (See Rubber Club of America)	
Bumper for Screen Doors.....	670	Clubs, Automobile, as Rubber Retailers.....	494
Bunch Grass to Be Grown with <i>Hevea</i> Rubber	*347	Clutch and Brake, Magnetic, with Flexible Coupling.....	*674
Burkhill, I. H., Successor to H. N. Ridley.....	100	Dodge Friction, with Safety Throwout, etc.	*672
Burma, Rubber in.....	636	Magnetic, as Safety Device.....	*500
Rubber Cultivation in.....	679	Couagulants, Various, Results of.....	36
Business of Stealing Rubber, The (Editorial).....	3	Congulation of <i>Hevea</i> Latex by Smoking.....	118
Byrne Curing Process.....	623	of <i>Hevea</i> and Strength of Rubber.....	600
C		Review of Mr. Barratt's Paper on.....	507
Cable, Additional, Between New York and Colon.....	636	Simão Da Costa's Machine for.....	326
Armoring Machine for Hose and.....	*94	Tanks for.....	44
Companies Benefit by Cheap Rubber.....	623	Coagulator, Norzagaray's.....	*558
Endurance (Okonite).....	315	Coat, Waterproof, for the Horseman.....	*307
Hudson River, for Telephone Co.....	614	Coating and Spooling Machine.....	*258
Insulated Wire and (Lecture by Mr. Middleton).....	498	Fabric, New Method and Machine for.....	*208
Calculating Machine; Slide Rule for Rubber Workers.....	*536	Woven Hose, Cobb's Machine.....	*556
Calender Rolls, Lubricating Box for.....	*557	Coats of Arms and Flags, All American.....	299
Room Layout.....	*550	Cobb's Machine for Coating Woven Hose.....	*556
Tension Device for.....	*616	Cochin China, Rubber Planting in.....	*42
California, Employers' Liability Act in.....	429	Cocoa Planting in Uganda.....	*538
Exhibition.....	13	Coffee Planting in Uganda.....	*538
Camp Bed, Pneumatic.....	*498	Pot Spout of Rubber.....	*307
Canada, Tariff of, on Rubber Goods.....	174	vs. Tea as Catch Crop with Rubber.....	100
Canadian Commerce in Rubber Goods.....	130	Collar, Girdle, Caps, Cape.....	*547
Canal, Panama, New Market Opened by.....	462	College of Tropical Agriculture.....	43
Candy Molds of Rubber.....	*427	Colombia, Appropriation of, for Exploration (Editorial).....	583
"Caoutchouc" (Book Review)*183		Ought to Throw in Her Rubber Trade.....	229
"Caoutchouc, Lé" (Book Review).....	422	Comb with Renewable Teeth.....	*144
Cape, Collar, Girdle, Bathing Caps.....	*547	Combination Ice Bag, Water Bottle and Syringe.....	497
Capital in English Plantation Companies.....	380	Combs, Pressed Rubber Dies for Making.....	*615
Carbon Black from Natural Gas.....	288	Commerce and Labor Department, Secretary's Report.....	619
Determination of, in Rubber Analysis.....	*649	Foreign, of the United States.....	537
Cargoes, Rubber, Afloat at Outbreak of War (Editorial).....	667	of Great Britain in Rubber Goods.....	152
Carryall or Pannier, Motorcycle.....	497	Rubber Goods in.....	103, 184, 236, 292, 362, 430, 503, 505,
Cartoon, "Staggered Tread" When Man Is Made of Rubber.....	30	Commercial Organizations in Germany.....	309
Talking Through Your Hat.....	143	Commission, Akers.....	566
Car Washer, Adams, with Rubber Cap.....	*91	Amazonian, Permanent.....	62
Cash Value of One Good Snow Storm (Editorial).....	281	Brazilian Mixed, Report of.....	408
Castillos, New Tapping Knife.....	*9	Comparison, Brazilian, of Pará and Plantation Rubbers of Crude and Waste Rubber Imports.....	171
Casualties to Brazilian Rubber Steamers.....	349	Composite Nature of Crude Rubber.....	340
Catalog of Standard Size Urged.....	349	Compounding Ingredients and Chemicals, Market for (Editorial).....	686
Catch Crop with Rubber, Coffea vs. Tea.....	100	Ingredients; Weighing Machine.....	*674
Ceará in Brazil.....	10	Compounds, Nitrogen in Vulcanization of Rubber.....	650
in Mosambique. (R. N. Lyne Report).....	33	Rubber, Mineral Matter in.....	112
Cell Drying Machine.....	145	Vanadium and Tungsten in.....	601
Celluloid Superseded by Lyrilite Manufacture, Rubber in.....	476	Conference, International Agricultural.....	270
Cement, Rubber; Accidents from Some of Its Uses.....	472	Rubber, Plans for 1914.....	321
Census, Rubber Manufacturing Statistics in Next.....	224	International, Tropical Agriculture.....	322, 676
Central America, Opportunities in Rubber Planting Discouraged.....	88	Rubber, Plan, for 1914.....	321
Cess (Tax on Rubber Producers).....	116	Rubber, Belgian, Conditions in.....	623
Ceylon Has Advantage of Brazil Chamber of Commerce, Report of 1913, at New York, 1912 Exposition Report.....	117, 56, 480, 481	Roman, Rubber Freight Reduced.....	44
Cheltwood, Report of 1913.....	480	French, <i>Landolphus</i> in.....	44
"Chaps," Cowboy's of Rubber.....	*593	Rubbers, Technological Study of.....	562
Chart, Lewis and Peat's.....	350	Congress and Exhibition, Batavia.....	327, 385, 461, 510, 511
Chattanooga Wants Rubber Industry.....	304	at Pará for Development of Amazon Country.....	41
Chaves, Colonel, and the Acre Rubber Tax.....	406	at Pará, Story of.....	57
Check, Rubber, for Screen Doors.....	670	of Tropical Agriculture, International.....	676
Chemical Engineers, American Institute of, Transactions.....	240	International Commercial and Industrial Associations.....	527
Chemicals, Market for Compounding Ingredients and.....	686	Rubber, in Pará.....	41, 57
Chemist, A Distinguished Rubber — Prof. Sharples (Portrait).....	490	Cornery, John C., Death of.....	664
Chemistry of Rubber (Book Review).....	298	Consular Report (British) on Pará Trade.....	562
Chemists' Club—Year Book, 1914.....	552	Consumption of Rubber, American.....	338
Chemists, Rubber—What They Are Doing	14, 112, 224, 340, 400, 481, 600, *649	Rubber, Automatic Increase in Compared with Population.....	221
Chicago Passes Fender Ordinance.....	111	English.....	526
Rubber Trade.....	78, 131, 188, 244, 302, 359, 426, 487, 544, 604, 663	German Manufacturer on Per Head of Population.....	623
Chicle, a Minor but Vastly Popular Rubber Sort (Editorial).....	581	Contests in Tire Upkeep.....	429, 488
Exports, Guatemalan, Increasing.....	325	Contraband of War, Rubber Not Included in.....	682
China, Tariff of, on Rubber Goods.....	179	Conveyor Belts.....	*86, 315
Trade Marks in.....	115	Belts, Increasing English Production.....	675
Civic Federation, National (Editorial).....	110	Cooke, Henry G., Death of.....	309
Clamp, Hose, New.....	*499	Co-operative Advertising.....	283
Patch, High Pressure.....	*396	Copper and Other Metals, Action of, on Rubber	600
Cleaning Up St. Louis (Editorial—Philanthropy, etc.).....	399	Corner? Will Eastern Planters Try a (Editorial).....	3
Clearly Libelous (Durability of Rubber Foot-wear) (Editorial).....	223	Corset, Elastic Fabric for.....	608
Clerk Can Undo It All, The (Editorial).....	168	Cotton.....	124, 199, 405, 477, 498, 535, 536
Clothing, Rubber, Balmacaan Raincoat.....	35, 144, 380	Large Japanese Order for.....	674
Rubber, Coats at Niagara and Labrador.....	*519	and Rubber, Close Connection Between (Editorial).....	477
for French Army.....	97	and Rubber Manufacture.....	283
"Kid's Combination Set".....	*128	Foreign, The Great Increase in.....	397
New Material for.....	263	Growing in Australia.....	535
Women's Raincoats.....	*203, 378	Its Varieties, Geography, etc.....	289
Waterproof Coat for the Horseman.....	*307	Manufacturers' National Association—Meeting.....	292
Club, Chemists', Year Book 1914.....	552	Statistics—Production and Consumption.....	291
foreign Trade, "Indian House".....	813	Supremacy in America.....	55
Illustrated.		Trade, Notes from.....	388
		Coupling, Flexible, Magnetic Clutch and Brake with.....	674
		Giant Magnetic, for Rubber Mill.....	557
		Hose, Standard.....	430
		Cowboys "Chaps" of Rubber.....	*393

Crisis in Brazil.....	341, 401
Pará Notes.....	627
Report Mixed Commission.....	408
Crosbie-Roles, F., Advocates the "Ceas.".....	117
Crucible Holder, Rubber.....	*262
CRUDE RUBBER —	
Amazon Shipments for 1912 and 1913.....	
Chemical Composition of.....	14
and New Banking Act.....	461
and Waste Rubber Imports Compared.....	375
Composite Nature of.....	340
During 1913.....	237
German Imports and Statistics.....	39
Low Grade, Stocks of, in London.....	380
Prices, and Reclaimed, Conform.....	379
<i>Cryptostegia grandiflora</i> , Rubber Vine Suited for Bahamas.....	99
Cuba, Fender Legislation of.....	98
Rubber Tariff of.....	180
Cultivation of <i>Funtumia</i> and Para, Gold Coast of Rubber in Burma.....	679
Dr. Arens' Investigation.....	678
in French Indo-China.....	680
Manáos Experiment Station.....	644
in Nigeria, Papua, etc.	45
in Ohio.....	*645
on Malayan Peninsula.....	*478
Cure, Byrne Process.....	623
Wickham Smoke, Practical Test of.....	*117
Current Phrase Illustrated.....	92
Currier, G. O., Death of.....	613
Curtain Support, "Uneek".....	*607
Customs Ruling, Raincoats	631
Rulings, Recent	255, 471, 554
D	
Da Costa, J. Simão; Coagulating Machine (Portrait).....	326
Dahne, Dr. Eugenio. (Portrait).....	15
Damaged or Lost Goods, Liability of Railroads for.....	659
Dancing Pump, "Castle".....	*670
Dannerth, Dr. Frederic, Laboratory Plan for.....	257
Davis, James L., Death of.....	89
Day, Asa Wilton, Death of.....	251
De Frate, Frank, Death of.....	(Portrait) 664
Dealer, Rubber, Labrador Paradise of.....	*660
Decorticator for <i>Landolphus</i>	*556
Defesa da Borracha, Record of.....	404
Definition, Direct, of Rubber, Impossible.....	563
Deflation of Tire Ring Bell.....	159
Deli Testing Station, Medan, Sumatra.....	385
Del, Long, Wm. A. (Portrait).....	370
Interview, Singapore Market.....	201
Demoralizing Force of Holidays, The (Editorial).....	528
Dental Jaw Brace.....	*607
Detectorphone for Locating Machine Troubles.....	134
Determination of Carbon in Rubber Analysis.....	649
of Mineral Matter in Rubber.....	112
of Rubber by Combustion of Nitrosoite.....	649
Quantitive of Sulphur in Rubber.....	112
De Toledo, Dr. Pedro.....	233, 241
Dies for Making Pressed Rubber Combs.....	*615
Dime Check for Screen Door.....	670
Dirigibles, Italy Still Building.....	266
Disc, Rubber, for Lifting Cream.....	*34
Diseases of Tropical Plants (Book Review).....	653
Dishes, To Prevent Breaking on Faucet.....	307
Disinfecter for Telephone.....	*670
Diving, Sailors Work Under Water.....	47
Dock Rates, London, Reduction in.....	321
Dodge Friction Clutch, etc.	*672
Dog, Rubber Requirements of the.....	268
Doll, Rubber; "Kewpie".....	263
Douche, Nature's Assistant.....	*378
Doughty, Henry J., Inventor (Portrait).....	666
Drinking on the Fly.....	(Aviation) 74
Drinking Tube of Rubber for Pocket.....	92
Dryden, George B. (Portrait).....	29
Duck Blind, Pneumatic Floating.....	*203
Durability of Rubber Shoes (Editorial).....	223
Dutch East Indies; Import Trade of.....	678
Capital Investments in.....	569
Japanese Planters.....	156
Rubber and Tea Companies.....	451
Exports from Growers' Association.....	327, 431
Dutch Guiana, Balata in.....	293, 324, 450, 572, 680
Duty Export, on Rubber.....	124, 397, 482, 525, 530
Dynamite, Farming by.....	627

E	
Ear Muff, Rubber.....	*92
Protection Device Against Noises.....	*423
East Indies, Dutch; Import Trade of.....	678
Japanese Planters in.....	156
Eastern Planters—Will They Try a Corner? (Editorial).....	3
Eaton, B. J., Report of, on European Factories.....	151
Economy, Great, of the Larger Tires (Editorial).....	1
Ecuador, Foreign Trade Opportunity (Map) *465	
EDITORIALS —	
A Genuinely Helpful Sort of Help.....	338
A Great Loss to Brazil.....	282
A Loose Piece of Legislation.....	53
A Minor but Vastly Popular Rubber Sort.....	581
And Why Not Rubber Tennis Courts?.....	527
Boycott Old John Barleycorn.....	464

670.5 I 38

V 49 & 50 C. I.

THE INDIA RUBBER WORLD

III

Brazil to Borrow a Hundred Million More.	528	Hose, Specifications	292
Clearly Libelous	223	Proofing, Asbestos and Uralite	150
Colombia Ought to Throw in Her Rubber Trade	583	Firestone, R. J. (Portrait)	311
Co-operative Advertising	283	Fish, Rubber, for Trolling	*356
Cotton in Conjunction with Rubber	283	Fishing Rod, Eraser Used in Reel Seat of	*670
Fender Regulations	111	FOOTWEAR—	
Four Months of the New Tariff	338	"Apaley" Tango Shoes	*143
Getting Accurate Rubber Statistics	223	"Barker" Hunting Shoes	*138
Has Successful Synthesis Arrived?	525	Bathing Shoes, Rubber	*378
Hevea Planting Successful in Mexico	4	Building Rubber Boots, Pictorial Story of	657
How the Rubber Country Served the Colonel In Our Twenty-fifth Year	462	Durability of Rubber Shoes	(Editorial) 223
Inventor of the Pneumatic Tire	640	First Rubber Shoe Made in America	*252
Is Rubber Headed Toward Higher Levels?	167	Golf Shoes, Rubber	*378
Is Singapore to Be the Future Rubber Market?	53	Leather Boots Lined with Rubber	*262
Life Saving Potentialities of Rubber	111	New Method of Vulcanizing Footwear	*444
Mexico from the Inside	167	Pumps, Canvass, with Rubber Soles	*204
New Work for Motorcycle Tires	4	Castle Dancing	*670
Nineteen Thirteen in the Rubber Trade, and 1914	165	New "Glove," Canvas and Rubber	*442
No Psychology in the Automobile Trade	581	Pure Shoe Bill	192
North American Banks in South America	583	Rubberized Velvet Shoe	*608
"One of the Five Largest Producers"	583	Rubber Shoes Not Replaced by Waterproof Leather	
President Pena and His Book	528	Shoes that Protect the Ground	*34
Prizes to Be Awarded at London Rubber Exposition	222	Tango Shoe, Popularity of	*427
Re Rubber Thieving	464	Straps to Make Rubber Shoes Stick	*263
Retaliating on the Pedestrian	453	The Importance of the Soldier's Shoe	(Editorial) 640
Rubber Consumption Compared with Population	526	Why Leather Shoes?	(Editorial) 111
Rubber Literature	221	Wool Boot, Origin of	*482
Rubber Scrap Too High	109	Flags and Coats of Arms, All American	299
Rubber Works for the Human Interior	464	Floating Duck Blind, Pneumatic	*203
Self-Interest the Best Promoter of Efficiency	54	Floods, Rubber Goods for	*362
Shall Labor Constitute a Privileged Class?	526	Flooring, Rubber	*380, 480
Taking the Measure of the Last Thirty Years	110	Flour, Dry, as Rubber Preserver	24
The American Consumption of Rubber	338	Foot, Rubber, with Steel Springs	*608
The Annual Show Losing Favor	339	Ford, Henry, Power Saving Plans of	*445
The Automatic Increase in Rubber Consumption	221	Ford, J. Howard, Death of	(Portrait) 367
The Awakening on the Amazon	337	Foreign Commerce of the United States	*537
The Binding Ties of Trade	527	Trade Club, "Indian House"	613
The Business of Stealing Rubber	3	Trade Opportunities	62, 88, 115, 172, 229, 248, 311, 368, 413, 441, 465, 549, 631, 638, 641, 646, 682
The Cash Value of One Good Snowstorm	281	Formic Acid in Rubber Reclaiming	400
The Clerk Can Undo It All	168	Forsyth, J. H., Death of	(Portrait) 425, 434
The Demoralizing Force of Holidays	528	Fountrymen's Association and the Saloon	464
The Export Burden Rubber Has to Bear	525	Fountain Pen, The Making of a	*533
The Great Economy of the Larger Tires	1	Pen, Transparent	*548
The Great Increase in Foreign Cotton	640	Four Months of the New Tariff	(Editorial) 338
The Importance of the Soldier's Shoe	463	France Excludes German Nipples, etc	97
THE INDIA RUBBER WORLD Follows the Uptown March	166	Rubber Clothing for Army of	97
The Last of the Boston Pioneers	167	Tariff of, on Rubber Goods	175
The Latest Exploit of Inventive Genius	339	Frasch, Herman	(Portrait) 597
The London Rubber Show in June	398	Freight Charge Errors, Action Motor and Accessory Manufacturers' Association	669
The New Market Opened by the Panama Canal	462	Rates, Netherlands, Too High	569
The Opening Door of South American Trade	638	Rubber, Reduction in Belgian Congo	44
The Perennial Making of Auto Laws	283	French Congo, <i>Landolphus</i> in	44
The Persistence of Rubber	55	Guiana, Balata in	572
The Possibilities of the Motorcycle	640	Story of Gold in	572
The Reasons for the Drop in Rubber Prices	525	Indo-China, Rubber Cultivation in	680
The Responsiveness of the Dumb Heap	337	Syndical Chamber of Rubber Manufacturers to Exhibit in London	151
The Rubber Congress in Batavia	461	Friction Clutch with Safety Throw-out, Dodge	*672
The Rubber Heel and Sole in National Affairs	399	Fulton, Miss D., Secretary of London Exhibition	(Portrait) 560, 590
The Rubber Tariffs of Other Countries	168	Funtumia elastica Compared with Pará Rubber	567
The Rubber Trade's Debt to Guayule	109	elastica and Hevea in Gold Coast Report	679
The Tire Brings Back the War Chariot	462	Future of Rubber	97, 153, 185
The Transportation Tax on the Rubber Manufacturer	110	of Rubber in Amazon Country Hopeful	644
The Tremendous Toll that Rubber Has Paid The War and the Rubber Trade in the United States	637	of Rubber Industry on Upper Amazon	643
Turning Philanthropy Into Profits	399	G	
Twenty Thousand Auto Tires a Day	56	Gage, Sico Yield, for Rubber	*12
War Prices Will Start Synthesists Again	639	Gages, Air Pressure, Increasing Use of	550
What That Pneumatic Substitute Must Have	55	Galalith, for Buttons, Displaced by Lyrolit	150
What the Auto Shows Have Cost the Tire Makers	168	Gardens, Botanic, of Singapore and Penang	100
When the Rubber Trade Genuinely Mixes (Rubber Club Outing)	582	Botanic, Peradeniya	*618
Where Ceylon Has the Advantage of Brazil	56	Britain's Tropical, etc	*591
Whitmore, George P.—An Appreciation	397	Garters, Rubber, with Pockets	502
Why Leather Shoes?	111	Gasoline, Hose for Carrying	80
Will American Cotton Always be Supreme?	55	Gas Tubing, To Protect	91
Will Tronclads Become Rubberclads?	281	Gaskets, Machine for Cutting	*377
Will the Eastern Planters Try a Corner?	3	Gathering Balata in Dutch Guiana	*293
Will the New Banking Law Help Crude Rubber Financing?	461	Rubber in Peruvian Montana	406
Wisely Awaiting the Result of the Tariff	110	General Rubber Co., Sumatra Plantation of	*113
EDITOR'S BOOK TABLE—		Genuinely Helpful Sort of Help, A	
Annals of Missouri Botanical Garden, St. Louis	654	(Editorial) 338	
Annuaire Universel du Caoutchouc	539	German Crude Rubber Imports and Statistics	39
Botanic Gardens, Peradeniya	*618	East Africa	41, 45, 124, 625
Caoutchouc	(Dr. A. J. Ultee) 183	Exports to Brazil—Comparison with United States	153
Chemistry of Rubber	(B. D. Porritt) 298	Exports of Rubber Goods in 1913	322
Cocoon Cultivation and Plantation Machinery (H. Lake Cophlan and J. W. Hinckley) 354		Insulated Wire Manufacturers' Sales Association	96
Culture et Exploitation du Caoutchouc au Brésil	*352	Manufacturer on Rubber Consumption	526
Der Manihot-Kautschuk (Dr. A. Zimmerman) *298		Manufacturing Statistics	623
Diseases of Tropical Plants (Melville Thurston Cook) 653		Rubber Manufacturers' Association—Meeting	563
F		Rubber Nipples Excluded by France	97
Faber, Eberhard	(Portrait) 252	Germany and Russia, Rubber Trade in, for 1913	236
Fabric, Elastic, for Corsets	608	Chinese Cotton Trade of, Sought by Japan	674
New Method of Coating; Machine for	*208	Commercial Organization Opposed in	509
the Waterproofering of	(Book Review) 618	Renting Motor Vehicles in	323
Factories, European; B. J. Eaton's Report on	151	Rubber Export Statistics	564
Far East, Acreage of Plantation Rubber in	678	Rubber Industry of	677
Farming by Dynamite	627	Tariff of, on Rubber Goods	176
Federated Malay States, Rubber Output of	154, 210, 238	Girdle, Bathing Caps, Cape, Collar	*547
Felling Balata Trees, Experiments in	449	Gloves, Leather Faced, Insulating	378
Fenders, Motor, Laws	98, 111, 208	Goiddi, Andre, and Bunch Grass	347
Fertilizers for Rubber, Trials of	567		
Festival, Tree, in Pará	627		
Fifteenth Annual Meeting Rubber Goods Manufacturing Co.	433		
Fifty Square Miles of Rubber Trees	*113		
Fine Para, <i>Manihot</i> in Production of, in Brazil	326		
Finger Tooth Brush	*34		
Fire Fighting on Shipboard	*159, 478		

*Illustrated.

THE INDIA RUBBER WORLD

Goggles, Rubber, for Mineral Ore Breakers..	319	
Gold Coast Government Report on <i>Funtumia</i> and <i>Heves</i>	679	
Coast Rubber and Water.....	505	
in French Guiana Story of.....	572	
Golf Ball, Design for.....	608	
Ball, Dunlop "W".....	497	
Liquid Core, Bursting of.....	611	
Suicide Caused by.....	664	
Balls, Value of English Patent on.....	97	
Goodrich, Dr. B. F., Declared Inventor Pneumatic Tire.....	640	
Goodyear, Charles, Portrait of, Sold.....	671	
"Goodyear, The, A Family Newspaper".....	33	
Goring, "Elastic Cloth" Circular of 1857.....	71	
Gowin, Lucy C., "Working in Rubber Factory".....	72	
Grass to Grow with Rubber.....	347	
Gravel, J. C. L., Death of.....	89	
Great Britain, India Rubber Trade in, 37, 95, 150, 209, 319, 379, 446, 507, 559, 622, 675		
Britain, Rubber Machinery Manufacture Increased in.....	675	
Britain's Commerce in Rubber Goods.....	152	
Exports of Rubber Manufactures.....	561	
Rubber Production of Her Possessions.....	623	
Tropical Gardens.....	591	
Economy of the Larger Tires, The (Editorial).....	1	
Loss to Brazil, A. (Dr. Jacques Huber) (Editorial).....	282	
Gross-Lichterfelde, Rubber Testing at.....	267	
Growing Rubber in Ohio.....	645	
Guatemala, Chicle Exports Increasing.....	325	
Decrease of Rubber Exports from.....	325	
Some Neglected Nearby Markets.....	641	
Guayule, Correction of Error.....	20	
Extraction, Discovery of.....	135	
Hunting by Automobile.....	471	
Made Marketable by William Appleton Lawrence.....	135	
Receipts, Marked Drop in.....	631	
The Rubber Trade's Debt to... (Editorial).....	109	
Guiana, British, Cultivation <i>Heves</i> , <i>Funtumia</i> , etc.....	342	
British, Growth of Rubber Trees, Balata, etc.....	680	
<i>Heves</i> Tapping Results in.....	272	
Notes from.....	40, 155, 212, 324, 386, 449, 515, 571,	
Report, C. K. Bancroft.....	626	
Weather; Larger Exports.....	681	
Dutch, Letters re Plantations.....	99, 293	
Dangers of Balata Gathering.....	293	
Notes from.....	324, 513, 571, 572	
French, Balata in.....	39	
Gummi-Zeitung, Prize Offer.....		
H		
Hammer, Jacob, Death of.....	434	
Hard Rubber Propellers for Airships.....	153	
Hartford, Rubber Plantation in, Boiler Room.....	141	
Harvey, J. C.—Pará Rubber in Mexico.....	7	
Has Successful Synthesis Arrived? (Editorial).....	525	
HIGHS AND SOLES—		
Balata Soles for Leather Shoes.....	151, 425	
Filler for Soles.....	17	
Heels and Soles with Quarter Tips.....	548	
Insoles for Cold Feet.....	22	
Leather Scrap and Rubber Soles for Leather Shoes.....	425	
Rubber Heel with Balata Plug.....	419	
Heels as Diamond Gatherers and Soles Required in Senate.....	399	
Soles, Increasing Popularity of.....	486	
Various Non-Leather Soles.....	603	
"Wingfoot" Rubber Heel.....	608	
Heilbut, Samuel, Death and Will of.....	435, 561	
Heine, George, Death of.....	434	
Help, A Genuinely Helpful Sort of. (Editorial).....	338	
<i>Heves</i> and <i>Funtumia</i> Results in Gold Coast Report.....	679	
Coagulation and Strength of Rubber.....	600	
Culture.....	352	
in Mexico. (By J. C. Harvey).....	7	
in Trinidad—Two Species.....	155	
Last Four Articles of Dr. Huber on.....	407	
Latex, Coagulation of by Smoking.....	118	
Latex Coagulation; Its Bearing on Rubber Strength.....	600	
Only Trees of, in Panama.....	415	
Paper by H. E. Potts.....	14	
Planting in Uganda.....	538	
Planting Successful in Mexico. (Editorial).....	4	
Rubber Notes from British Guiana.....	40	
Tapping in British Guiana, Results of.....	272	
Highway, Lincoln.....	246, 303	
Hirsch & Co., Adolph, as Planters.....	416	
Hodgman, George B.—Address to Rubber Club of America.....	416	
Hofeller, Theodore (Portrait).....	366	
Hoff, Kommerzienrat Louis (Portrait).....	323	
Holidays, The Demoralizing Force of (Editorial).....	305	
Homes for Factory Workers.....	499	
Hood, George H., Last of Boston Pioneers (Editorial).....	167	
Hood, George H., Death of (Portrait).....	194	
Hopkins, Alfred, Death of. (Portrait).....	367	
Horn Bulb.....	6	
Hose and Cable, Armoring Machine for.....	94	
Clamp, New.....	499	
Coupling, Standard.....	430	
I		
Fire, Specifications for.....	292	
Flexible Metallic.....	142	
for Carrying Gasoline.....	80	
Garden or Lawn, Sensible Size for.....	288	
Rack, Convenient.....	91	
Rubber, in Machine Shop and Foundry.....	125	
Use of in Cementing Wall Cracks.....	34	
Testing, Buffing Wheel for Use in.....	377	
Woven, Cobb's Machine for Coating.....	556	
Hospitals, Tire; The Growing Popularity of.....	543	
How the Rubber Country Served the Colonel (Editorial).....	462	
Huber, Dr. Jacques.....	62, 282, 570	
Dr. Jacques, Death of. (Portrait).....	308	
His Busy and Useful Life. (His Grave).....	348	
In Commemoration of.....	627	
Last Four Articles on <i>Heves</i>	407	
Mme. Sophie Müller, Leaves Pará.....	570	
Hünicker, Capt. Felix H., Death of. (Portrait).....	23	
I		
Ice Bag of Rubber with Textile Lining.....	307	
Bag, Water Bottle and Fountain Syringe, Combination.....	*497	
Importance of the Soldier's Shoe. (Editorial).....	640	
Importation, Rubber, Direct from Singapore.....	215	
Imports of Crude and Waste Rubber, Comparison of.....	375	
Rubber, of the United States—Statistics of.....	49, 105, 161, 217, 278, 334, 394, 457, 521, 578, 633, 688	
Industry, Rubber, Future of, on Upper Amazon Rubber, in Brazil and the Orient (Book Review).....	652	
of Germany.....	677	
Incidental Injustice of Justice. (Editorial).....	463	
Incorporations.....	27, 84, 140, 199, 254, 313, 372, 439, 496, 554, 614, 668	
INDIA RUBBER World at London Exhibition.....	308	
Booth at London Exhibition.....	390	
Follows Upton March.....	166	
Trophy for London Exhibition.....	248	
Trophy for Batavia Exhibition.....	*510	
Twenty-fourth Anniversary. (Editorial).....	1	
Indicator, Surface Speed.....	*94	
Indo-China, French, Cultivation of Rubber in.....	680	
Inflation of Tires, Proper.....	16	
Inhaler, DeFord Nasal Sonoform.....	*80	
Injunction Against Vulcanizer Makers.....	441	
Inscription Sales; Description, etc.	186, 266	
Insect Pests. (British Guiana Correspondence).....	515	
Insole for Cold Feet.....	*548	
Instruction in Rubber Industry for Employees.....	304	
Insulated Wire and Cable. (Lecture by Mr. Middleton).....	498	
Wire Manufacturers, German, Sales Association.....	96	
Insulating Gloves, Leather Faced.....	378	
Insulation, Molded, Electrical and Plastics (Book Review).....	619	
of Electric Conductors, Action of Mine Water on.....	365	
Rubber, Analysis of.....	379	
Insulating Machine, New Six-Die.....	12	
International Commercial and Industrial Association Congress.....	527	
Congress of Tropical Agriculture.....	676	
Inventive Genius, Latest Exploit of. (Editorial).....	339	
Investments, British, Abroad.....	561	
Ironclads, Will They Become Rubberclads? (Editorial).....	281	
Iron-Oxide Paint for Metal Work.....	682	
Is Rubber Headed Toward Higher Levels? (Editorial).....	167	
Singapore to Be Future Rubber Market? (Editorial).....	53	
Italy Building Dirigible Balloons.....	266	
Tariff of, on Rubber Goods.....	182	
J		
Japan a New Pacific Source of Rubber.....	384	
Insulated Wire Companies in.....	385	
Large Cotton Order from.....	674	
Rubber Trade in.....	98, 269, 449, *624	
Tariff of, on Rubber Goods.....	181	
Japanese Planters in Dutch East Indies.....	156	
Jar, Air-Sealed Vacuum.....	*607	
Java and Sumatra Acreage Compared.....	451	
and Sumatra, Increase of Rubber Acreage.....	100	
New Agricultural School in.....	679	
Rubber Exports of.....	578	
Treib Memorial Laboratory at Buitenzorg.....	678	
Jaw Brace, Rubber.....	*607	
Jelutong and Methods for the Separation of Its Resins.....	481	
Jump Stands, Rubber Plummets for.....	670	
K		
Kahn Law a Loose Piece of Legislation (Editorial).....	53	
"Kewpie," Rubber.....	*263	
Kid's Combination Set.....	*128	
Kincaid, Col. Henry L., Address of, at Annual Meeting of Rubber Club.....	418	
"Koolbite" Teething Toy.....	*34	
Kornit Co., Liquidation of.....	663	
Kuala Lumpur, Vulcanizing Plant at.....	451	
L		
Labor Conditions Improving in British Guiana.....	324	
Problems in German East Africa.....	41	

Illustrated.

Coating Fabrics, New Method.....	*208	Tire.....	673	Vitalic Clincher Casing for.....	*669
Woven Hose, Cobb's Machine.....	*556	Vulcanizer, Steam.....	*146	Motorcycles for Rural Postmen.....	562
and Spooling Wire.....	*258	Vulcanizing Footwear.....	*444	Motor Truck Fender Ordinance.....	11, 208
Cobb's Machine, for Coating Woven Hose.....	*556	Washing, Sheeting and Slicing.....	*317	Truck, Gaining Better Mileage from the.....	5
Collapsible Core for Tire Building.....	*145	Waste Reclamation, Machine for.....	*207	Reduces Cost of Farm Produce.....	443
Core for Tires, "Duplex".....	*621	Weighing Compounding Ingredients, Ma-		Cost of Street Cleaning.....	438
Rewinding Shaft.....	*499	chine for.....	*674	Vehicles, Germany Opposed to Renting.....	323
Combs, Pressed Rubber; Dies for.....	*615	Tires, Machine for.....	*617	Mozambique, Ceara Rubber in.....	
Couplings, Giant Magnetic.....	*557	Wheel Buffing.....	*377	(R. N. Lyne Report).....	33
Curing Molds.....	*501	Wire Coating and Spooling.....	*258	Müller, Dr. Lauro Welcomed Home.....	122
Cutting Gaskets.....	*377	Multiple Insulation Head.....	673	Museu Goeldi, Experiments in Smoking, etc.	62
Rubber Stock, Shear for.....	*502	Wrapping Tires.....	*13, 94, 145, 205,	Goeldi Zoological and Botanic Gardens.....	*170
Decorticator for Landolphia.....	*556	258, 317, 377, 673	Museum, Commercial, Opened in Brazil.....	381	
Detectorphone for Locating Machine Trou-		Wringer, Clothes, with Pneumatic Rolls.....	12		
bles.....	*134	Machine Shop and Foundry, Rubber Hose in.....	*125	N	
Dies for Pressed Rubber Combs.....	*615	Troubles and the Detectorphone.....	*134	Nail Brush, Bailey's.....	
Dodge Friction Clutch with Safety Device.....	*672	Machinery, Rubber, Manufacture of, Increased		Brush, Rubberet Sanitary.....	*91
Double Tubing Machine.....	*444	In Great Britain.....	675	Natal, Acetone from.....	*498
Drying Machines, Cell.....	*145	Mackintosh, W. M., Dines His Friends.....	496	Rubber Tree, <i>Euphorbia Tirucalli</i>	563
Footwear, Insole Manufacturing Machine.....	*673	Madeira-Mamorá Railroad	169, 404	National Association of Cotton Manufacturers	569
Vulcanizing Machine.....	*444	Magnesite and Earthy Fillers for Rubber,		—Meeting.....	292
Gaskets, Machine for Cutting.....	*377	United States Supply of.....	686	Association of Waste Material Dealers.....	366
Giant Magnetic Couplings.....	*557	Magnetic Clutch and Brake with Flexible		Civic Federation.....	(Editorial) 110
Gyrator Sifting Machine.....	*499	Coupling.....	674	Natural Gas, Carbon Black from.....	288
Hose and Cable Armoring Machine.....	*94	Clutch at Safety Device.....	*500	Navy, Will Ironclads Become Rubberclads?	
Clamp.....	*499	Coupling, Giant, for Rubber Mill.....	557	(Editorial).....	281
Testing, Buffing Wheel for.....	*377	Make-Up, Theatrical, Rubber in.....	*443	Specifications, Latest Report on.....	435
Woven, Cobb's Machine for Coating.....	*556	Malaya and Standardization.....	267	Netherlands Freight Rates Too High.....	569
Wrapping Machine.....	*673	Experimental Plant Installed.....	*70	India (See Dutch East Indies).....	
Hydraulic Press, Ramless, for Tire Filling.....	*146	Rubber Conditions in.....	186	"Neverleek" Automobile Top.....	*144
Tire Press.....	*318	Cultivation in.....	*478	New Jersey Statistics of Manufactures for	580
Indicator, Surface Speed.....	*94	Exports of.....	154, 210, 238, 451	1912	
Insulating Machine, New Six-Die.....	*12	Planting (Acreage and Output).....	678	New Market Opened by the Panama Canal	
Insulation Head for Forcine Machine.....	*673	Malayan Peninsula, Cultivation of Rubber on.....	*478	The.....	(Editorial) 462
Keystone Slitter and Rewinder.....	*93	Mallet, Handy Rubber.....	*92	New RUBBER GOODS IN THE MARKET	
lubricating Box for Carrier Rolls.....	*557	Manáos and Pará—Statistics for 1913.....	405	Air-Sealed Vacuum Jar, The.....	*607
Magnetic Clutch and Brake.....	*674	Experimental Station for Rubber Culture.....	644	Apsley Tango, The.....	*143
Clutch as Safety Device.....	*500	Manders, A. Staines.....	560	"Automassage" Shaving Brush, The.....	*348
Couplings, Giant.....	*557	Manikot in Brazil.....	10	Automobile Top Made of Rubber, An.....	*144
Mendes Machine for Smoking Rubber and		Gloriosi Tapping in British Guiana.....	155	Bailey's Rubber Nail Brush.....	*91
Its Product.....	*346	Scraping.....	340	Rubber Crucible Holder.....	262
Mixing Machine.....	*616	129 Varieties of.....	*298	Balmacaan Raincoat, A.....	497
Molding Machine.....	*673	Manufacturers, Rubber, The.....	110	Car Washer with a Rubber Cap, A.....	*91
Molds, Quick Curing		Manufacturing Industry in Brazil, Rubber.....	121	Casting Dancing Pum, The.....	*670
Tire.....	*673	Statistics (Rubber) in Next Census.....	224	Cementing Walls with Rubber Hose.....	34
Norzagaray's Coagulator.....	*558	Matchett, Thomas.....	(Portrait) 371	Clinical Thermometer in Hard Rubber Case.....	*548
Nozzle Duo, Combination		Mats, Rubber, Improvement in		Cold Feet Annihilator.....	548
U. S. A.	*262	Rubber, for Safety of Workmen.....	506	Combination Ice Bag, Water Bottle and	
Patch Clamp.....	*189	Non-Slip Bath.....	*203	Fountain Syringe.....	497
Plastometer (Rubber Testing Instrument).....	*396	Running Board.....	442	"Compact" Pneumatic Camp Bed, The.....	*497
Pneumatic Tire Building, Automatic, Machine	*93	McBurney, Dr. Charles, Death of.....	134	Convenient Hose Rack, A.....	*91
Press, Hydraulic, for Filling Tires		McElroy, William B., Death of.....	368	Design for a Golf Ball.....	*608
Hydraulic Tire.....	*318	Measuring the Annette, Rubber Device for.....	374	Dime Screen Door Check.....	670
Ramless Hydraulie		Meat, Dried (Xarque) and Fresh (in Brazil).....	346	Dry Storage for Tennis Balls.....	144
Tire.....	*146	Mechanical Rubber Goods Testing Conference.....	484	Dunlon "V" Golf Ball, The.....	*497
Printers' Blankets, Resurfacing		Memorial to Dr. Melchior Treub (Buitenzorg		Duo Nozzle, The.....	*262
Productograph (For Recording Operation		Laboratory).....	678	"Everlastik"	262
and Production).....	*558	Met-al, Process for Attaching Rubber to	*14	Everlasting Gas Tubing.....	*262
Puncture-Finder for Motorist.....	*235	Work, Iron-Oxide Paint for.....	682	"Eye Snap"	*547
Quick Curing Molds.....	*501	Metallic Hose, Flexible.....	142	Finger Tooth Brush, A.....	*34
Ramless Hydraulie Press.....	*146	Mexican Crude Rubber Co. Explosion.....	*491	Goodyear Co.'s Flexible Metallic Hose.....	143
Reclamation of Rubber Waste, Machine for		Mexico from the Inside.....	167	Guaranteed Raincoats.....	378
Recording Instrument—Productograph	*207	Hevea Planting Successful in (Editorial) 4, 7		Handmade Championship Tennis Balls, The.....	262
Refining and Straining.....	*558	Imposes Export Tax on Rubber.....	232	Handy Rubber Mallet, The.....	*92
Resurfacing Printers' Blankets.....	*616	Our Trade with, Decreasing.....	99	Heating Apparatus for Water Bottles.....	442
Rewinder and Slitter, Keystone		Situation in—Letter from American.....	682	Improvements in Rubber Pails.....	*671
Rewinding Shaft, Collapsible		Tariff of, on Rubber Goods.....	174	Jaw Brace of Rubber, A.....	*607
Slitting and.....	*206	Troubles of—American Views of.....	184, 351	Koolblit Teething Toy, The.....	*34
Rubber Stock, Cutting Shear.....	*501	Use of Motor Cars in War.....	462	Laboratory Wash Bottle.....	*497
Rule, Slide.....	*536	of Rubber Tires in.....	(Editorial) 682	Late Design in Golf Shoes, A.....	*378
Safety Device, Magnetic Clutch		Mileage, Gaining Better, from the Motor		Leather Boots Lined with Rubber.....	*262
Shear, Rubber Stock Cutting.....	*501	Truck.....	5	Faced Insulating Gloves.....	262
Sheeting, Slicing, Washing and		Unusual Tire.....	235	Lift and Force Pump with Rubber Parts, A.....	*443
Sifting Machine, Gyror.....	*499	Milk Products, Lyrolit, Galath.....	150	Little Rubber Kewpie, The.....	*263
Six-Die Insulating.....	*12	Milk, Inside a Comprehensive Rubber.....	*494	Live Leather and Rubber Belt, A.....	608
Skiving.....	*318	Mineral Matter in Rubber Compounds.....	112	Motorcycle Pannier and Carryall, A.....	*497
Slicing, Washing and Sheetng.....	*317	Mine Water, Acid, Action of, on Insulation.....	365	Motor Lamp with Rubber Body.....	*144
Slide Rule for Rubber Men.....	*536	Mining, Uses of Rubber in.....	*285	Nature's Assistant.....	378
Slitter and Rewinder, Keystone		Minor but Vastly Popular Rubber Sort		New Glove Pumps.....	*442
Slitting and Rewinding.....	*206	(Editorial) 581		Material for Waterproof Garments.....	263
Smoking Machine.....	*346	Mixed Commission Report on Brazil Rubber		Rubber Caps and Coats for Fall.....	*35
Sole-Laying Machine, (Goodyear Twin)	*472	Crisis.....	408	Rubber Foot, A.....	*608
Sole (Insole) Making Machine.....	*673	Consignments of Plantation Supplies.....	647	Rubberized Nail Brush.....	*497
Solid Tire Machine.....	*13, 376	Mixing Machine Eliminating Manual Labor.....	*616	Rubber Steel Valve.....	*548
Speed Indicator, Surface.....	*94	Moir Rubber Plantation, Para.....	*401	Shoe for Bathers, A.....	*378
Snooling Wire, Coating and		Mold, Horn Bulb.....	*391	Tire Repair Patch, A.....	307
Snrayer, "Four Oaks"	*616	Tire Stretching and Vulcanizing.....	*391	Use for Elastic Fabrics, A.....	608
Soreadine Machine.....	*674	Onick Curing.....	*501	Waterproof Leaking	*607
Steam Vulcanizer.....	*146	Molded Electrical Insulation and Plastics		Non-Detachable Stopper.....	*262
Stock, Rubber, Cutting Shears.....	*501	(Book Review) 619		Non-Slip Bath Mat, A.....	*203
Straining, Refining and	*543	Molds, Rubber, for Making Candy.....	*427	One Atmosphere Cushion Tire.....	*91
Suction Attachment for Punch Presses	*377	Moorhouse, Henry P., Death of (Portrait) 23, 37		Pho-No-Germ, The.....	*670
Surface Speed Indicator.....	*94	Morris, Edwin S., Death of.....	(Portrait) 664	Piece of Rubber Eraser for a Reel Seat, A.....	*670
Tension Device for Calendar.....	*616	Morse, Albert T., Death of.....	194	Pocket Drinking Tube, A.....	92
Testing Instrument for Rubber—Plastometer	*11	Motorcycle Pannier and Carryall, A.....		Portable Lamp with Rubber Suction Cup.....	*203
Tire Core, Collapsible.....	*145, 621	Tires, Use of, in War in Mexico.....	462	Pneumatic Floating Duck Blind, The.....	*203
Filling, Hydraulic Press for		New Use for Rubber on	152	Pen for Plastics, A.....	*670
Mold.....	*623	Possibilities of, for Post Office.....	(Editorial) 640	Protecting the Dishes from the Faucet.....	307
Press, Hydraulic.....	*318	Tires, New Work for	4	Protection Against Accidental Poisoning.....	*378
Presses.....	*673			Pullastic Bandage, The.....	378
Tread—Machine for Applying Studs.....	*674			Raincoats.....	*203
Weighing Machine.....	*617			for Dolls.....	*35
Wrapping, *13, 94, 145, 205, 258, 317, 377	673			Renewing Teeth in a Rubber Comb.....	144
Tires, Pneumatic; Automatic Machine for				Rubber Aids to Sanitation and Health.....	263
Building.....	*93			and Fabric Sleeve for Blow-outs.....	*143
Puncture Finder.....	*235			as an Artful Aid to Temperance.....	*442
Solid Machines for Building.....	*13, 376			Blower for Antiseptic Powder.....	*497
Triple Gang Machine for Weighing Ingredi-				Disc to Lift Off the Cream, A.....	*34
ents.....	*674			Ear Muff	*92
Tubes, Rubber; Machine for Forming.....	*207				
Tubing Machine, Double.....	*445				
Vulcanizers for Car Owners.....	*445				

Fasteners for Aviators.....	307	War the Opening Door.....(Editorial)	638
Ice Bag with Textile Lining in Theatrical Make-up.....	307	in Central America.....	88
Egg Testing.....	*443	Orange, Osage, in "Ohio Rubber".....	*646
Respirator Construction.....	*143	Ordnance, Fender, for Motor Trucks.....	208
Millinery.....	92	Organizations, Commercial, in Germany.....	309
Plummetts for Jump Stands.....	670	Orient and Brazil—Rubber Production Compared.....(Book Review)	*652
Spoon for the Tea or Coffee Pot.....	*91	Originator of Tuck's Packings.....	39
Strips for Securing Window Glass.....	*34	Osage Orange in "Ohio Rubber".....	*646
Rubbers That Protect the Ground.....	442	Outboard, Federated Malay States, Rubber.....	154, 210, 238
Running Board Foot Mat.....	442	Malaya, and Acreage.....	678
Board with Rubber Strip.....	*497	Overproduction of Rubber, English Viewpoint.....	508
"Sani-Masseur," The Sanitary Eraser, The.....	670	Over-Size Tires	1, 4, 5, 64, 127
"Sanitor," The Shick Sewer Cleaner, The.....	*443	P	
Shirts and Sleeves of Rubber.....	*442	Pacific Coast, Rubber Trade on.....	19, 79, 132,
Soft Rubber Wedges Bait.....	*307	190, 246, 304, 361, 429, 489, 546, 606	
To Make Your Rubbers Stick.....	*263	Packing Rubber, Special Boxes for.....	212
Protect Gas Tubing.....	91	Plantation Rubber, Adulteration in.....	506, 601
Transparent Fountain Pen, A.....	*548	Packings, Tuck's, Originator of.....	39
June-A-Phone, The.....	*443	Page, Ebene Blake, Death of.....	134
"Uneek" Rubber Curtain Supports.....	*607	Page, Allan W., Death of.....	24
Waterproof Coat for the Horseman.....	*307	Pails, Rubber, Improvements in.....	*671
Covers for Automobile Seats.....	378	Paint, Iron-Oxide, for Metal Work.....	682
Garments for the Sportsman.....	*144	Panama Canal, New Market Opened by.....	(Editorial) 462
Rubber Heels.....	*607	Only Hevea Trees in.....	*415
Wire Wheels and Quick Tire Changes.....	92	Tariff of, on Rubber Goods.....	178
Woman's Rubberized Velvet Top Shoe, A.....	*608	Trade, Shall We Lose?.....	*413
New Work for Motorcycle Tires.....(Editorial)	4	Papua, Rubber Cultivation in.....	45
New Zealand, Rubber Tariff of.....	178	Pará, Agricultural Instruction in State of.....	627
Newspaper, "The Goodyear".....	33	and Amazonas, Boundary Dispute Between.....	644
Niagara and Labrador, Rubber Costs at.....	*519	Manaos, Statistics for 1913.....	405
Nigeria, Rubber Cultivation in.....	45	Plantation Rubbers, Brazilian Comparison of.....	171
Nineteen Thirteen in the Rubber Trade.....(Editorial)	165	Arbor Day in.....	627
Nipples, German, Excluded by France.....	97	Congress, Story of.....	57
Nitrogen Compounds, Influence on Vulcanization.....	650	Experiments in Smoking at Museu Goeldi.....	62
Nitroso Combustion, Determination of Rubber by.....	649	Laboratory of Dr. Pinto at.....	63
Nomenclature of Lamp Blacks.....	37	Museu Goeldi Zoological and Botanic Gardens.....	*170
No Psychology in the Automobile Trade.....(Editorial)	581	Port of.....	403
North British Rubber Co., Long Term of Service with.....	*448	Rubber Congress in.....	41, 57
American Banks in South America.....	583	in Mexico.....	27
Norzagray's Coagulator.....	*558	Trade, British.....	562
Nozale Duo, Combination.....	262	Tree Festival in.....	627
U. S. A.....	*189	Parachute Device for Aviator.....	371
O		Parcel Post, Tires at.....	440
Obalaki, Xavier W.....(Portrait)	28	Paris, Fourteenth Automobile Salon at.....	265
OBAKARIES—		Patch Clamp, High Pressure.....	*396
Baker, A. C.....	367	Patent Law, Kahn.....	53
Bertsch, Paul E.....	24	Law on Golf Balls, Value of English.....	97
Connery, John C.....	664	Patents and Trade Marks, Registration in China.....	115
Cooke, Henry G.....	664	Recent, Machinery.....	673
Currier, G. O.....	613	Rubber.....	46, 101, 157, 213, 273, 329, 389, 453, 516, 573, 628, 683
Davis, James L.....	89	Pavements, Rubber.....	471, 525, 559, 622, 675
Day, Asa Wilton.....	664	Pellinger, George, Death of.....	24
De Frate, Frank.....(Portrait)	367	Pen, Fountain, The Making of.....	*533
Ford, J. Howard.....(Portrait)	434	Fountain, Transparent.....	*548
Fornyth, J. H.....(Portrait)	425	Pneumatic, for Plastics.....	*670
Gravel, J. C. L.....	89	Pena, President, of Argentina, and His Book (Editorial)	528
Hammer, Jacob.....	434	Penang, Botanic Gardens at Singapore and.....	100
Hilburt, Samuel.....	435	Peradeniya, Botanic Gardens.....	*618
Heise, George.....	435	Perennial Making of Auto. Laws, The (Editorial)	283
Hood, George H.....	194	Periodical, "The Goodyear".....	33
Hopkins, Alfred.....(Portrait)	308	Persistence of Rubber, The.....(Editorial)	55
Huber, Dr. Jacques.....(Portrait)	367	Peruvian Montana, Rubber Gathering in.....	406
Hunicke, Captain Felix H.....(Portrait)	23	Philanthropy, Turning It Into Profits (Editorial)	399
Lee, J. Ellwood.....(Portrait)	368	"Phonogram" Telephone Disinfector.....	*670
Lewis, George A.....(Portrait)	251	Pick, "Tyre-Pick" for Pebbles, etc.....	12
Lindsey, John D.....	368	Pinto, Dr. Carlos de Cerqueira, Laboratory at Pará.....	63
McBurney, Dr. Charles.....	134	Pioneers, Last of the Boston.....(Editorial)	167
McElroy, William B.....	23	Pitcher, Franklin W., 80th Anniversary (Portrait)	201
Moorhouse, Henry F.....(Portrait)	664	Plantation Companies, English, Capital of.....	380
Morris, Edwin S.....	194	Companies, Situation of.....	686
Morse, Albert T.....	134	Machinery, Coconut Cultivation and.....	354
Page, Ebene Blake.....	24	of General Rubber Co., Sumatra.....	*113
Paige, Allan W.....	24	Rubber, Acreage in Far East.....	678
Pellinger, George.....	24	Adulteration of.....	506, 601
Porta, Terencio.....	644	American Ideas on Standardizing.....	505
Roberts, Addison F.....	644	Antwerp View of.....	236
Shepard, Mrs. Frederick M.....	309	Brazilian Comparison of Pará and.....	171
Teale, Robert E. J. C.....	24	Fine Hard, from Eastern Plantations.....	379
Van Vleet, Clinton.....(Portrait)	309	Is It Overproduced?.....	156
Vianna, Dr. Gaspar.....	644	Maching for Producing.....	*431
Vitt, Benjamin F.....	194	Supplies—Mixed Consignments.....	647
Westinghouse, George.....	368	Para and African.....	237
Whitmore, George.....(Portrait)	308	Packing Suggestions.....	506, 601
Woodford, Leon M.....	251	Preparation of.....	147
Ogasawara Islands—A New Pacific Source of Rubber.....	384	Quality of.....	44
Ohio, Growing Rubber in.....	*645	Reducing Production Proposed.....	43
Okenite Co., The—Cable Endurance.....	315	Selling Agency for.....	156
Oldfield, Barney, Wine Race at Detroit.....	82	Solinters of Wood in.....	506
Olympia Motor Show, London.....	152	Will Eastern Planters Try a Corner? (Editorial)	3
"One of the Five Largest Producers" (Editorial)	583	Plantations, Rubber, in Mexico, Dying.....	*325
Opportunities, Foreign Trade.....	62, 113, 172,	Planters, Rubber Importers as.....	*10
Colombia.....	248, 311, 368, 441, 549, 631, 646	Will Eastern, Try a Corner? (Editorial)	3
Ecuador.....	*229	Planting Coffee, Pará Rubber and Coconuts in Uganda.....	*538
European War America's Opportunity (Letter)	*465		
Guatemala.....	*641		
Panama.....	*413		

*Illustrated.

Hevea in Mexico, Successful....(Editorial)	4
Notes.....	43, 100, 154, 271, 328,
	387, 451, 513, 567, 678
Rubber, in Central America Discouraged.....	116
Experiments in British Guiana.....	40
in Cochin China.....	42
in Far East.....	326
Plastics, Molded Insulation and....(Book Review)	619
Pneumatic Pen for.....	*670
Plastometer, a Rubber Testing Instrument.....	*11
Plug, Pneumatic, for Pneumatic Tires.....	28
Plumbers' Cleaning Device.....	*142
Cleaning Device for Home Use.....	*443
Plummet, Rubber, for Jump Stands.....	670
Pneumatic Pen for Plastics.....	*670
Poel & Arnold Judgment Affirmed.....	365
Poisoning, Alleged, at Russian Rubber Factory.....	509
Bichloride Mercury, Prevention.....	111, 378
Polyphene Sulphide in Vulcanization.....	112
Pontianak Process, New.....	198
Port of Pará.....	*403
Porta, Senhor Terencio, Death of.....	644
Post Office, British, Trials Motorcycles.....	562
Office, Possibilities of Motorcycles for (Editorial)	640
Potts, H. E.—Paper on Hevea.....	14
Pounded Rubber, from <i>Landolphus ovariensis</i>	567
Power Saving Plans of Henry Ford.....	445
Preservation of Rubber with Dry Flour.....	24
Presses (See Machinery),	
Price Solid Tire Wrapping Machine.....	*13
Prices, Crude and Reclaimed Rubber, Conform	379
Rubber, Are They Headed Toward Higher Levels? (Editorial)	167
Dismal Effect of Fall in.....	511
Effect, in German Africa, of Drop.....	625
Fluctuating, Due to War.....(Editorial)	637
London Correspondence on.....	95
Net, in London, for Plantation Rubber.....	321
Real Net, Advantage of.....	305
Reasons for Drop in.....(Editorial)	2
"The Worst Over".....	511
Scrap Rubber, Too High.....(Editorial)	109
Tire—No Cut Imminent.....	30
Prince Arthur of Connaught.....(Portrait)	321, 560
Printers' Blanks, Machine for Resurfacing.....	*616
Prize, "Gummi-Zeitung" Offer of.....	39
for Description of Smoked Rubber.....	191
Motor Trucks (Austria).....	269
Offer, INDIA RUBBER WORLD, Batavia Exhibition.....	*510
INDIA RUBBER WORLD, London Exhibition.....	*248
Prizes Awarded at London Exhibition.....	587, 676
for Tire Upkeep.....	429, 488
List, for Batavia Exhibition.....	569
Offered for Batavia Exhibition.....	625
for London Exhibition.....	*222, 248, 447
Problems, Some Rubber.....	14
Process for Attaching Rubber to Metals.....	*14
Producers, One of the Five Largest (Editorial)	583
Production of Sulphur.....	*597
Plantation Rubber, Proposed to Reduce.....	43
by Brazilian Method.....	*431
Rubber, English Viewpoint of Overproduction.....	508
Mr. Lampard's Views on.....	480
of British Possessions.....	623
World's; Lewis & Peat's Chart.....	350
World's, Wild and Plantation.....	67
Productograph, Production Indicator.....	*558
Products, Addition, of Rubber.....	400
Profit Sharing Plan of Ford Co.....	320, 338
Profits on African Rubbers Reduced.....	45
Progress, Civic, in Last Thirty Years (Editorial)	110
Technical, Affecting Rubber in 1913.....	563
Propellers for Airships, of Hard Rubber.....	153
Prospect and Retrospect—1913 in the Rubber Trade, and 1914.....(Editorial)	165
Psychology in the Auto. Trade, No.....	581
Pump, Automobile Tire, Automatic.....	*12
Lift and Force, for Home Plumbing.....	*443
Pumps (See Footwear),	
Punch Press, Suction Attachment for.....	*377
Puncture Finder for Motorists.....	235
Pure Shoe Bill.....	192
Q	
Quality of Plantation Rubber.....	44
Quarter Tips of Rubber on Leather Heels and Soles.....	*22
Quotations, Rubber Company Shares.....	437, 474, 555
R	
Railroads, Liability of, for Lost or Damaged Goods.....	659
Railway, Need of, for British Guiana.....	386
Madeira-Mamoré, Value of, to Brazil.....	404
Reasons for the Drop in Rubber Prices (Editorial)	2
Reclaimed and Crude Rubber Prices Conform	379
Rubber, Conditions in England.....	622
Paper by H. E. Potts.....	14
World's Annual Amount of.....	562
Reclaiming Industry.....	336
Rubber, Formic Acid for.....	400
Machine for.....	*207
Thirty Years of Success.....	*541

Reel-Seat of Fishing Rod, Rubber Eraser for.	670	Self-Interest the Best Promoter of Efficiency <i>(Editorial)</i>	54
Registration of Foreign Patents and Trade Marks in China.	115	Seligmann, Siegmund <i>(Portrait)</i>	153
Renting of Motor Vehicles Opposed in Germany.	323	Selling Agency for Plantation Rubber.	156
Repairing Tires, Popularity of Tire Hospitals.	543	Service, Long, with One Firm.	448
Tires, Tread Band for.	316	Shait, Rewinding, Collapsible.	499
Republic Rubber Co. Club for Employees.	81	Shail Labor Constitute Privileged Class? <i>(Editorial)</i>	526
Re Rubber Thieving.	464	Share Quotations, Rubber Co.	372, 437, 474, 555
Resins, Method of Separating, from Jelutong.	481	Sharples, Stephen F. <i>(Portrait)</i>	490
Respirator Construction, Rubber in.	143	Snaving Brush, "Automassage".	497
Restaurant for Factory Employees.	16, 129	Shear, Rubber Stock Cutting.	502
Retaliating on the Pedestrian.	463	Sneeting, Slicing and Washing Machine.	317
Retail Rubber Purchases Not Exchangeable.	375	Shepard, Mrs. Frederick M., Death of.	309
Retrospect and Prospect—1913 in the Rubber Trade, and 1914.	165	Shipbuilding, India Rubber in.	281, 413
Review and Forecast, Ritter, Ritter & Co.'s.	383	Situpins of Amazon Rubber for 1912 and 1913.	6
of Crude Rubber Market.	48, 104, 160, 216, 276, 332, 392, 456, 520, 576, 636, 687	Shipping Bill, New, Facilitates Trade.	649
Rewinding Shaft, Collapsible.	499	Spirits and Sleeves, Rubber.	442
Rhode Island Rubber Trade.	19, 77, 131, 189, 245, 303, 359, 427, 487	Shoes (<i>See Footwear</i>).	
Rolls, Calender, Lubricating Box for.	557	Shortage of Rubber; Prospect 1914.	185
Rubber, for Tanning, Improvement in.	376	English Estimate of.	350
Roofing, American, in Tripoli.	99	Show, Annual, Losing Favor. <i>(Editorial)</i>	339
Roosevelt, Theodore.	462, 570	Auto, and the Tire Makers.	168, 191
Running Board with Rubber Strip.	*497	Electrical, Rubber at.	103
Rubber, a Minor but Vastly Popular Sort		New York's Fourteenth Annual Automobile.	233
(Editorial)	581	Olympia, Motor, London.	152
Club of America, Action re Rubber Cargoes Afloat at Outbreak of War.	667	Sicily, Rubber Wants of.	566
Announcement of Crude Rubber Conditions.	667	Sico, Yield Gage for Testing Rubber.	*12
Annual Meeting at Boston.	416	Sifting Machine—Gyrator.	499
Arbitration Activity.	483	Singapore as Future Rubber Market.	53, 68, 116, 201, 209, 239
Fifteenth Annual Banquet.	(Portrait) 22	Botanic Gardens Singapore and Penang.	100
Gathers Rubber Statistics.	223, 249, 419	Correspondent Predicts Shortage.	185
Member United States Chamber Commerce	503	Importation of Rubber Direct from.	53, 215
New Home of.	19	Market; W. A. De Long Interviewed.	201
New Members.	663	Rubber Notes from.	568
Nominations, etc.	369	Skates, Water, of Rubber.	*172
Outing.	*582	Skating, Roller, on Rough Roads.	536
Resolution on Rubber Stealing.	20	Skiving Machine.	318
Tariff Information to Members.	82	Sleeves and Shirts of Rubber.	442
Year Book for 1913.	19	Slicing, Washing and Sheeting Machine.	317
Congress at Batavia.	461	Slide Rule for Rubber Men.	536
Consumption, American.	338	Sitting and Rewinding Machine.	206
Automatic Increase in.	221	Smoking Processes Compared.	328
Compared with Population.	526	Kubber, Brazilian Method—Machine for.	*431
English.	623	Mendes' Machine for.	346
German Manufacturer on.	526	Snow Storm, Cash Value of One Good.	
Goods in Commerce.	103, 184, 236, 292, 362, 430, 503, 505	Societe Financiere Des Caoutchoucs, Report.	281
Manufacturing Co., Fifteenth Annual Meeting.	433	Soldier, the Importance of His Shoe.	593
Growers' Association, London.	171, 267, 383, 468	Soles (<i>See Heels and Soles</i>).	
in Celluloid Manufacture.	476	Solvents, Oils, Gums, Waxes and Allied Substances.	503
Industry in Brazil and the Orient.		Used in Rubber; War Affects Prices.	686
Its Sources, Cultivation and Preparation	(Book Review) 652	SOME NEGLECTED NEARBY MARKETS	
Manufacturing Industry in Brazil.	653	Colombia.	*229
Statistics in Next Census.	121	Ecuador.	(Map) *465
Scrap Too High.	(Editorial) 109	Guatemala.	*641
Situation in Brazil.	169	Soudan, Anglo-Egyptian; Good Rubber Trees in.	98
in Brazil, German View of.	382	Ceara Rubber in.	45
Tariffs of Other Countries.	168	Source of Rubber, Ohio as (<i>Asclepias</i> , etc.).	*645
Trade Association, London.	563	South Africa, Motor Car Exports to.	24
Trade's Debt to Guyane.	(Editorial) 109	America, Opening Door to Trade of	
Verb Transitive, Etymology of.	506	West Africa Compared with.	99
Works for the Human Interior.	(Editorial) 464	Specifications, Fire Hose, Litigation.	292
Rubbers; Clearly Libelous.	(Editorial) 423	Navy, Latest Report on.	435
Running Board Mats, Rubber.	442	Speed Surface Indicator.	*94
Russia, Aviation in.	365	Splash-Guards in Paris.	265, 292, 381
and Germany, Rubber Trade of, 1913.	236	Splinters in Plantation Rubber.	506
Russian Government Orders Aeroplanes.	674	in Plantation Rubber; Prevention of.	601
Rutherford, W. O.	(Portrait) 424	Sponge, Rubber, Odorless.	152
S		Sponges, Rubber, Treatment of.	24
Safety of Employees, Provisions for.	485	Spout, Rubber, for Tea or Coffee Pot.	307
of Workmen, Rubber Mats for.	506	Sprayer, "Four Oaks".	617
Sailors Work Under Water.	47	Stamp, Cushion, "Universal Unit".	617
Salaries of Corporation Officials.	311	Stamps, Rubber, Extent and Growth of Trade	374
Saloon Foundrymen's Association Tries to Banish.	464	Rubber, Invention and Manufacture of.	256
Samoa, Development of Rubber Culture in.	580	Useful for Blueprints.	251
Sand as Anti Skid.	103	Standardization Committee and Dr. Dannerth.	257
"Sanitor" Cleansing Device for Mouth.	670	Committee Rubber Growers' Association	171, 267, 383
Sapium, Failure of, in British Guiana.	515	Malaya and	267
Schaffer, Frederick F.	(Portrait) 613	of Catalogue Sizes Advocated.	349
School, Agricultural (New) in Java.	679	Rubber, Federated Malay States and.	267
Rubber, Northern Polytechnic Institute, London.	88	R. N. Lyne on.	33, 384
Twice-a-Week Rubber Lectures.	304	Plantation Rubber, American Ideas on.	505
Scrap Rubber, Hydraulic Press for.	*109	Standring, Mr. Herbert, Leaves India Rubber Journal.	151
Rubber Market, English.	508	Statistics, Amazon River, 1912-1913.	6
Too High.	(Editorial) 109	Continental, 1911 to 1913.	322
Wellesley Girls Collecting.	426	Cotton Goods Production.	291, 498
Scraping Effects on Manhot and Kickias.	340	English, German, Turkish, 1912-1914.	623
Screen Door, "Dime Check" for.	670	of the World, 1912-1913.	320
*Illustrated.		Rubber, 1911 to 1913.	238
		European, of Crude Rubber, 1913.	391
		Export of Rubber Goods, 1900-1913.	172
		French Imports and Exports, 1913.	509
		German Rubber Exports, 1913.	564
		Rubber Manufacturing Co.'s, 1912.	509
		Trade, 1912.	39
		New Jersey Manufacturers, 1912.	580
		Official for United States to June 30, 1913.	409
		for United States, 1912-13-14.	656
		of Para and Manaus, 1913.	405
		Rubber Being Collected by Rubber Club of America.	223, 224, 249, 417, 419
		World's, 1905 to 1913, from Amsterdam.	408
		United States Rubber Imports.	49, 105, 161, 217, 278, 334, 394, 457, 521, 578, 633, 688
		Stealing Rubber, The Business of.	(Editorial) 3
		Rubber, English Case.	26
		Interesting Correspondence on.	20
		"Re Rubber Thieving".	464
		Resolution by Rubber Club of America.	20
		Stevens Bead Forming Machine.	*672
		Stick, Walking, as Aid to Temperance.	*442
		St. Louis, Cleaning Up.	
		(Editorial, Philanthropy, etc.) 399	
		Stoppers Secured to Hot Water Bottle.	*262
		Strips Settlements, Rubber Exports from.	569
		Street Cleaning Cost Lessened by Motor Trucks.	438
		Strike in Copper Mines Affects Belting Trade.	130
		Suits, Rubber, for Windows Instead of Putty.	91
		Sublimed White Lead.	340
		Substitute, Brown Jaco.	374
		for Celluloid—Galalith and Lycolite.	150
		Pneumatic Tire, Requirements of.	55
		Rubber—Facts.	481
		Suicide, Caused by Gold Ball.	664
		Sulphide of Antimony, Golden.	224
		Sulphur Output of United States for 1913.	537
		Production, Method of.	*597
		Quantitative Determination of.	112
		Supply in United States Plentiful.	686
		Sumatra and Java Increase Rubber Acreage.	451
		and Java Increase Rubber Acreage.	100
		Deli Testing Station, Medan.	*385
		General Rubber Co.'s Vast Plantation in.	*113
		Sundries, Rubber, Manufacturers Dine.	*420
		Surgery; Rubber Works for the Human Interior.	
		(Editorial) 464	
		Surinam, Balata Industry in, for 1913.	450
		Diminished Revenue from Rubber Export Duties.	155
		Swart, A. G. N. (Portrait) 270	
		Sweden Exports Rubber Shoes to United States.	
		Sweeney, Edward C. J. (Portrait) 28	96
		Syndical Chamber French; Rubber Manufacturers to Exhibit in London.	151
		Syndicate, European Rubber.	29
		Synthesis, Has Successful, Arrived?	
		(Editorial) 525	
		Synthesists, Renewed Activity of, Probable.	
		(Editorial) 639	
		Synthetic Rubber Experiments Fatal.	87, 349
		Rubber, and Artificial.	563
		from Two Aspects.	124
		Others May Get the Profits.	601
		Paper by H. E. Potts.	14
		Patents.	224, 481
		"Paver".	471, 525, 559, 622, 675
		War Will Start Synthesists Again	
		(Editorial) 639	
		Syringe, Fountain; Ice Bag, Water Bottle.	*497
		Midget.	*263
		"Nature's Assistant".	*378
		T	
		Tacky Rubber, Process for Restoring.	512
		Taking the Measure of the Last Thirty Years.	
		(Editorial) 110	
		Tambour System for Sheet Rubber.	122
		Tanks for Coagulating.	44
		Tanning, Rubber Rolls for.	376
		Tapping in German East Africa, New Process	452
		Knife.	*39, 122
		Manhot by Stabbing.	155
		Results in British Guiana (<i>Hevea</i>).	*272
		Tarific, Belgian, on Rubber Tires.	96
		Canadian, on Rubber Goods.	174
		Chilian, on Rubber Goods.	179
		Four Months of New.	(Editorial) 338
		French, on Rubber Goods.	175
		German, on Rubber Goods.	176
		Italian, on Rubber Goods.	182
		Japanese, on Rubber Goods.	181
		Mexican, on Rubber Goods.	174
		New, Rubber in the.	65
		of Austria, Federal.	177
		New Zealand on Rubber Goods.	178
		Panama on Rubber Goods.	178
		Turkey on Rubber Goods.	178
		on Rubber for Past Eighty Years.	67
		Rubber Goods and Chemicals.	178
		of Argentina.	180
		Brazil.	180
		Cuba.	180
		Wisely Awaiting Results of.	110
		Tariffs, Rubber, of Foreign Countries.	168, 173
		Tax, Acre Rubber.	59, 406
		Cess Tax Urged.	117
		Export Burden Rubber Has to Bear.	525
		Mexican, on Export of Rubber.	232
		on Rubber Producers, "Cess".	117
		Rubber, of Ceylon Opposed by Planters.	154
		Tremendous Toll that Rubber Has Paid.	397
		Transportation Burden of Rubber Manufacturers.	
		Taxes, Export, of the World, on Crude Rubber.	123
		Tea and Coffee Compared as Catch Crops.	530
		Teale, Robert E. C., Death of.	24
		Tea Pot Spout of Rubber.	*387
		Technical Progress Affecting Rubber During 1913.	563

Tecnological Study of Congo Rubbers.....	567
Teixeira, Dr. J. Ferreira, at Para Congress.....	57
Telephone Disinfector.....	670
Tennis Balls, Dry Storage for.....	144
Balls, English.....	262
Handmade, Championship in British Tournaments.....	262
Courts of Rubber, Why Not?.....(Editorial)	527
Tension Device for Calenders.....	*616
Testing Cage for Rubber.....	377
Hose, Buming Wheel for Use in Instrument; Piastrometer.....	11
Mechanical Rubber Goods.....	484
Rubber at Gross Lichtenfelds.....	267
Paper by H. E. Potts.....	14
Station, Deli, at Medan.....	385
Theatrical Make-Up, Rubber in Thermometer, Clinical, in Hard Rubber Case.....	*443
Thirty Years of Success.....	*541
Tiling and Paving, More Rubber.....	127
Tire Brings Back the War Chariot.....	462
Core, Collapsible.....	*145, 616
Dr. Goodrich Invents the Pneumatic.....	671
Deflation Signal.....	159
Hospitals, The Growing Popularity of.....	*543
Mileage, Usual.....	235
Pump, Automatic Automobile.....	12
Rims.....	250, 357
Upkeep Contests.....	429, 488
Wood and Rubber Block.....	*608
Tires, Air-Cushion, for Pleasure Cars.....	316
Automatic Pump for.....	12
Automobile, English Imports of Respond to Good Treatment.....	675
Bob-Sledding in the Alps with Rubber.....	*124
by Farel Post, New Ruling for.....	440
Bullet Proof, for Mexican Use.....	21
Collapsible Core for.....	*145, 616
Cushion, for Motor Trucks.....	*142
One-Atmosphere.....	*91
Daily Manufacture of, in Akron.....	56
Devices for Deflated for Weighing.....	139, 203
Dominion "Nobby".....	142
English, Varying Prices of.....	622
Exportation of, to Philippines.....	482
Filled with Compressed Cork.....	18
Filling, New Hydraulic Press for.....	*146
Gaining Better Mileage from the Motor Truck.....	5
Gage for Testing.....	*12
Goodyear, Detachable Tread for.....	*250
Great Economy of Larger.....(Editorial)	1
Inflation of.....	16
Keeping Tabs on.....	133
Look or Watch Them.....	460
Mold for Stretching and Vulcanizing.....	391
Motor, Decrease in Expense of.....	38
New Work for Motorcycle.....(Editorial)	4
Over-Sized.....	1, 4, 5, 64, 127
Pneumatic, Dr. Goodrich Inventor of.....	640, 671
Requirements of Substitute Three Tubes in One.....	*203
Puncture Finder for.....	*235
Puncture-Proof Pneumatic.....	142, 250
Repair Band for Patch.....	*307
Clamp.....	*396
Plug, Pneumatic, for.....	28
Rubber, with Resilient Steel Tread.....	*142
Shipment by Parcel Post.....	440
Solid, Effects of Overloading English Prospects for.....	64, 675
Machines for.....	13, 376
Non-Skid, Triple.....	142
Spare, Device for Concealing.....	316
Spring, with Rubber Block Tread.....	*203
Track, Wireless.....	*316
Wrapping by Hand, Device for.....	145
Wrapping Machines for.....	*94, 205, 238, 265, 317, 377
Tire Treads (<i>See Tread</i>)	
Tobago, Trinidad and; Commerce and Industry of.....	572
Townsend, Col. Arthur F., "Caught Napping".....	606
Toy, "Koolbite," Teething.....	*34
Tooth Brush, Finger.....	*34
Trade, Auto., No Psychology in the	
(Editorial) Binding Ties of.....(Editorial)	181
Foreign; American Export Methods.....	469
Commerce Department Plans for.....	249
Decrease in Our Trade with Mexico.....	99
European War America's Opportunity.....	682
Facilitated by Shipping Bill of Leading Countries, 1913.....	649
National Convention to Increase Opportunities—Colombia.....	547, 555
Consular Reports.....	63, 113, 172, 311, 248, 368, 441, 549, 631, 636
Ecuador.....	*465
Guatemala.....	*641
Panama.....	*413, 462
South America.....(Editorial)	638
Trade Mark, New, of United States Rubber Co.....	*439
Mark Right, How to Obtain.....	475
Marks and Patents, Foreign Registration.....	115
Panama, Shall We Lose It?.....	*413
Rubber, Colombia Ought to Throw in Her in United States and the War.(Editorial)	583
Wadleigh, W. L.....(Portrait)	200
Wages in Cochin China.....	42
Uneven Advance Discouraging.....	338
War; Action Rubber Club of America re Rubber Cargoes Afloat at Outbreak of.....	667
and the Rubber Trade.....(London Letter)	671
Xarque, Dried, and Fresh Meat in Brazil.....	346
Y	
Year Book, Fifteenth, Rubber Club of America	667
Z	
Zinc Oxide and Lithopone in United States.....	686

74
82
37
82
40
62
82
40
67
74
27
81
39
47
97
91
44
51
17
93
69
26
75
07
55
37
75
78
42
97
05
59
12
18
82
81
574
17
155
126
168
170
55
168
649
17
75
130
792
582
56
135
397
111
527
379
117
209
156
67
55
281
3
161
10
227
204
258
282
110
448
251
564
305
72
602
530
67
145
377
12
346
567
686